

## WE CLAIM:

1           1. A mine-detonation resistant understructure for a  
2 vehicle body, comprising:

3           an inwardly bend armoring bottom plate mounted on said  
4 body and juxtaposed with the ground and formed in a longitudinal  
5 direction of the vehicle with at least one bending edge;

6           a floorboard spaced above said bottom plate and mounted  
7 on said body with a direct connection with said bottom plate;

8           a deformation free space formed between said bottom  
9 plate and said floorboard of a height sufficient to permit inward  
10 buckling of said bottom plate under a mine detonation without  
11 contact of said bottom plate with said floorboard.

1           2. The mine-detonation resistant understructure  
2 defined in claim 1 wherein said floorboard is formed at least in  
3 part of a material providing fragment trapping properties  
4 thereto.

1           3. The mine-detonation resistant understructure  
2 defined in claim 2 wherein said floorboard is provided with a

3 fragment trapping carpet of a flexible high strength material to  
4 prevent incursion fragments into the interior of said body.

1 4. The mine-detonation resistant understructure  
2 defined in claim 3 wherein said carpet is composed of a plurality  
3 of layers of an aramide fabric.

1 5. The mine-detonation resistant understructure  
2 defined in claim 3 wherein said carpet is secured to said  
3 floorboard only at edge regions thereof.

1 6. The mine-detonation resistant understructure  
2 defined in claim 2 wherein said floorboard is provided with a  
3 slip-resistant material along an upper surface thereof.

1 7. The mine-detonation resistant understructure  
2 defined in claim 6 wherein said slip-resistant material is a  
3 rubber layer.

1 8. The mine-detonation resistant understructure  
2 defined in claim 1 wherein said floorboard is mounted in said

3 body so as to be easily dismountable.

1 9. The mine-detonation resistant understructure  
2 defined in claim 8 wherein said floorboard is attached to side  
3 walls of said body by screws.

1 10. The mine-detonation resistant understructure  
2 defined in claim 1, further comprising modular armor plates  
3 mounted along an underside of said bottom plate.

1 11. The mine-detonation resistant understructure  
2 defined in claim 10 wherein guide rails are provided along edges  
3 of said bottom plate to receive said modular armoring plates.

1 12. The mine-detonation resistant understructure  
2 defined in claim 11, further comprising connecting strips in the  
3 form of rails between individual modular armor plates.

1 13. The mine-detonation resistant understructure  
2 defined in claim 12, further comprising pins engaging into edge  
3 regions of said armor plates and into said connecting strips and

4     said guide rails.

1             14.   The mine-detonation resistant understructure  
2     defined in claim 13 wherein said armor plates and said strips and  
3     rails have aligned holes to receive said pins.

1             15.   The mine-detonation resistant understructure  
2     defined in claim 14 wherein at least some of said pins are screws  
3     threaded into the distal sides of the guide rails and connecting  
4     strips.

1             16.   The mine-detonation resistant understructure  
2     defined in claim 14 wherein said pins are composed of high  
3     strength material.

1             17.   The mine-detonation resistant understructure  
2     defined in claim 14 wherein said pins are fixed by screw thread  
3     devices in holes in said armor plates, said strips or said rails.